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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/082,434	02/22/2002	Eliel Louzoun	42390P13579	6361

8791 7590 09/28/2004

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EXAMINER

TRUONG, BAO Q

ART UNIT

PAPER NUMBER

2187

DATE MAILED: 09/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Advisory Action</b>	Application No. 10/082,434	Applicant(s) LOUZOUN ET AL.	
	Examiner Bao Q. Truong	Art Unit 2187	

**--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

THE REPLY FILED 20 August 2004 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

**PERIOD FOR REPLY [check either a) or b)]**

- a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.
- b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1. ☐ A Notice of Appeal was filed on \_\_\_\_\_. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2. ☒ The proposed amendment(s) will not be entered because:
- (a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);
  - (b) ☐ they raise the issue of new matter (see Note below);
  - (c) ☒ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
  - (d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: \_\_\_\_\_.

3. ☐ Applicant's reply has overcome the following rejection(s): \_\_\_\_\_.
4. ☐ Newly proposed or amended claim(s) \_\_\_\_\_ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for reconsideration has been considered but does NOT place the application in condition for allowance because: \_\_\_\_\_.
6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. ☒ For purposes of Appeal, the proposed amendment(s) a) ☒ will not be entered or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: \_\_\_\_\_.

Claim(s) objected to: \_\_\_\_\_.

Claim(s) rejected: 1-33.

Claim(s) withdrawn from consideration: \_\_\_\_\_.

8. ☒ The drawing correction filed on 22 February 2002 is a) ☒ approved or b) ☐ disapproved by the Examiner.
9. ☐ Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_.
10. ☐ Other: \_\_\_\_\_.

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1. The examiner acknowledges the applicant's submission of the amendment dated on 20 August 2004. At this point, claims 1, 7, 14, 22, and 28 have **previously** been amended.

*Response to Arguments*

2. Applicant's arguments filed on 20 August 2004 have been fully considered but they are not persuasive.

Regarding the rejections of claim 1, 7, 14, 22, and 28, the applicant argues on page 8 that Strongin teaches away from the concepts of those claims. Particularly, the applicant argues, "the applicant's amended claims indicate arbitrating based on status information **of at least one of the plurality of memory banks**. In contrast, Strongin teaches arbitrating based on memory page status, **specifically, whether the memory page is open.**" The examiner disagrees and directs the applicant to the rejections of claims 1, 7, 14, 22, and 28.

First, Stracovsky teaches scheduling of memory operations based upon status of memory banks. In other words, Stracovsky teaches the concept of using **status information of memory locations** to schedule access requests. However, Stracovsky does not teach arbitrating between the requests to determine priority of access to the memory bus based on the status information.

Next, the examiner further directs the applicant's attention to lines 5-21 of column 4 of Strongin. Strongin teaches a method of scheduling of memory access requests. Strongin teaches arbitrating between the requests to determine priority of access to the memory bus based on the status information of memory pages. In other word, Strongin teaches the concept of using **status information of memory locations** to arbitrate between memory access requests (see column 4: lines 14-21 of Strongin).

In Stracovsky, when requests to access **memory locations** are received, the **status of those memory locations** are used to schedule the requests. In Strongin, when requests to access **memory locations** are received, the **status of those memory locations** are used to arbitrate the requests. The concept that can be found in both Stracovsky and Strongin is optimizing the timing of memory access requests by **using the status information of memory locations**. Therefore, Stracovsky and Strongin clearly teach claims 1, 7, 14, 22, and 28.

Regarding the rejections of claim 1, 7, 14, 22, and 28, the applicant argues on page 8, "the applicant teaches status of the plurality of memory banks with respect to whether the bank is idle or will be idle when the controller receives the command, which banks have a request for a write command, which banks have a request for a read command, the type of the previous command, which bank was accessed in the previous command, the maximum number of write commands still allowed, and the maximum number of read command still allowed." The examiner disagrees because these limitations can not be found in claims 1, 7, 14, 22, and 28.

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***Conclusion***

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Q Truong whose telephone number is (703) 308-7090. The examiner can normally be reached on Monday-Friday from 6:00 AM to 3:00 PM (ET).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald A Sparks, can be reached on (703) 308-1756. The fax phone number for the organization where this application or proceeding is assigned is (703) 746-7239.

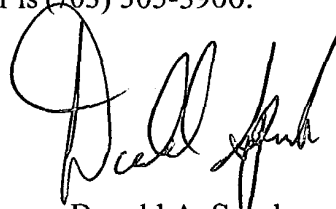
Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

*Bao Q Truong*

BT

Patent Examiner

23 September 2004



Donald A. Sparks

Supervisory Patent Examiner

Technology Center 2100